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Acronyms and Abbreviations

µg	micrograms
A	Aspect
AADT	Average Annual Daily Traffic
ACHP	Advisory Council on Historic Preservation
ACOE	Army Corps of Engineers
ADT	average daily traffic
AEO2009	*Annual Energy Outlook 2009*
AI	Agricultural Inspector
AIRFA	American Indian Religious Freedom Act
AMP	Minnesota Agricultural Mitigation Plan
ANFO	Ammonium Nitrate-Fuel Oil
ANSI	American National Standards Institute
APE	area of potential effect
API	American Petroleum Institute
ARPA	Archaeological Resources Protection Act of 1979
asl	above sea-level
ASME	American Society of Mechanical Engineers
ASNRI	Area of Special Natural Resource Interest
AT	alder thicket
ATF	Bureau of Alcohol, Tobacco, and Fire Arms
ATV	all-terrain vehicle
AWEA	American Wind Energy Association
BA	Biological Assessment
BACT	Best Available Control Technology
BAH	Board of Animal Health
BAMP	*Botrychium* Avoidance and Monitoring Plan
bbls	barrels
BBW	Bay-Breasted Warbler
BBWP	Black-Backed Woodpecker
BCR	Bird Conservation Regions
Bdp	Bena Dunes and Peatlands
BE	Biological Evaluation
BGEPA	Bald and Golden Eagle Protection Act
bgs	below ground surface

BHC	Boreal Hardwood Conifer
BIA	Bureau of Indian Affairs
BMP	best management practice
BNSF	Burlington Northern – Santa Fe
bpd	barrels per day
Bsp	Bemidji Sand Plain
BTBW	Black-Throated Blue Warbler
CAA	Clean Air Act
CAPP	Canadian Association of Petroleum Producers
CB	coniferous bog
CCL	Construction Line List
CECP	Construction Environmental Control Plan
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
CMC	sodium carboxmethyl cellulose
CMP	Construction Mitigation Plan
CNEB	Canadian National Energy Board
CNF	Chippewa National Forest
CO	carbon monoxide
CO_2	carbon dioxide
COE	U.S. Army Corps of Engineers
Compliance Manager	Environmental Compliance Manager
Contractor	Construction Contractor
CORE	Coker and Refinery Expansion
CPCN	Certificate of Public Convenience and Necessity
CREP	Conservation Reserve Enhancement Program
CRM Plan	Construction, Restoration, and Maintenance Plan
CROW	Construction Right-of-Way
CRP	Conservation Reserve Program
CSA	Canadian Standards Association
CSP	Contractor Safety Program
CWA	Clean Water Act
D	distance to suitable stream
DATCP	Department of Agriculture, Trade and Consumer Protection
dB	decibel
DB	Dispute Boards
dBA	A-weighted decibel scale

dbh	diameter at breast height
DEIS	Draft Environmental Impact Statement
Diluent Project	Southern Lights Diluent Project
DIPRA	Ductile Iron Pipe Research Association
DM	deep marsh
DMP	Dry Mesic Pine
DMPO	Dry Mesic Pine/Oak
DNR	Department of Natural Resources
DO	dissolved oxygen
DOE	U.S. Department of Energy
DOS	U.S. Department of State
DOT	U.S. Department of Transportation
DP	dam-and-pump
DPM	Detection Monitoring Program
DPS	Distinct Population Segment
DR	dimension ratio
DRB	Dispute Resolution Board
DRBF	Dispute Resolution Board Federation
DRM	Division of Resources Management
DSC	Differing Site Condition
E	endangered
EA	Environmental Assessment
EC_{50}	effective concentration
ECC	Edmonton Control Center
ECD	erosion and sediment control
ECS	Ecological Classification System
ED_{50}	effective dose
EDRR	Early Detection Rapid Response
EF	Experimental Forest
EI	Environmental Inspector
EI Supervisor	Environmental Inspection Supervisor
EIA	U.S. Energy Information Administration
EIS	Environmental Impact Statement
EMP	Environmental Mitigation Plan
Enbridge	Enbridge Limited Partnership, Enbridge Energy Company, Inc.
EO	Executive Order
EOR	element occurrence record

EPA	Environmental Protection Agency
ERC	emission reduction credit
ERCB	Energy Resources Conservation Board
ERP	Environmental Response Plan
ERW	Exceptional Resource Water
ESA	Endangered Species Act
EWP	Emergency Watershed Protection Program
EWS	extra work spaces
F	Fahrenheit
FCL	Forest Crop Law
FDL	Fond du Lac Band of Lake Superior Chippewa
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commisssion
FF	Floodplain forest
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FM	fresh meadow
FNA	Flora of North America
Forest Plan	CNF Land and Resource Management Plan
Forest Service	U.S. Forest Service
FR	Federal Register
FSA	Farm Service Agency
FSM	Forest Service Manual
FWCA	Fish and Wildlife Coordination Act
FWS	U.S. Fish and Wildlife Service
GAP	Gap Analysis Program
GBR	Geotechnical Baseline Report
GCP	Geotechnical Characterization Profile
GDR	Geotechnical Data Report
GES	Graham Environmental Services
GF	General Forest
GGO	Great Gray Owl
GHG	green house gas
GIS	geographic information system
GLG	Great Lakes Gas
GP	poorly graded gravel
gpm	gallons per minute

GPS	Global Positioning System
Gtp	Guthrie Till Plain
G-WL	guideline for lynx management
H_2S	hydrogen sulfide
HAP	hazardous air pollutant
HAZWOPER	Hazardous Waste Operations and Emergency Response
HCA	high-consequence area
HCADT	Heavy Commercial Average Annual Daily Traffic
HDD	horizontal directional drill
HDI	Horizontal Drilling International
HDPE	high density polyethylene
HS	hardwood swamp
HVTL	high voltage transmission line
IC_{50}	inhibition concentration
ICS	Incident Command System
IDEM	Indiana Department of Environmental Management
IEA	International Energy Agency
IEM	Independent Environmental Monitor
Keystone	TransCanada Keystone Pipeline
kPa	kilopascals
kV	kilovolt
L	location
L_{50}	1-hour average that would not be exceeded 50 percent of the time
LAER	lowest available emission rate
LAU	Lynx Analysis Unit
LC_{50}	lethal concentration
LCAS	*Lynx Conservation Assessment and Strategy*
L_{dn}	day-night sound level
LEDPA	least environmentally damaging practicable alternative
LEDPA	Least environmentally damaging practicable alternative
$L_{eq(24)}$	24-hour equivalent sound level
LES	Landscape Ecosystem Tapes
LHLC	Lowland Hardwood/Lowland Conifer
LIC	Local Indian Councils
LLBO	Leech Lake Band of Ojibwe Indians
LLDRM	Leech Lake Division of Resource Management
LLR	Leech Lake Reservation

LLRSS	Leech Lake Reservation Sensitive Species
LPG	liquid petroleum gas
LR	Longer Rotation
LSr	Southern Lights 20-Inch Crude Line
LTA	Landtype Associations
LUB	Lacustrine unconsolidated bottom
LULC	Land Use Land Cover
m^3	cubic meters
MA	Management Areas
MACT	Maximum Achievable Control Technology
MBTA	Migratory Bird Treaty Act
MCBS	Minnesota County Biological Survey
MCL	Maximum Contaminant Level
MDA	Minnesota Department of Agriculture
MDEQ	Michigan Department of Environmental Quality
MDH	Minnesota Department of Health
MDNR	Minnesota Department of Natural Resources
MDOT	Minnesota Department of Transportation
MFL	Managed Forest Law
MIAC	Minnesota Indian Affairs Council
Migratory Bird Plan	Migratory Bird Nest Avoidance and Monitoring Plan
MIH	Management Indicator Habitat
MLRA	major land resource area
MLV	mainline valve
MN DNR	Minnesota Department of Natural Resources
Mn/DOT	Minnesota Department of Transportation
MN/ND EMP	Minnesota and North Dakota Environmental Mitigation Plan
MNDNR	Minnesota Department of Natural Resources
MNH	Mesic Northern Hardwoods
MNR	Midwest Natural Resources, Inc.
Monitor	Independent Environmental Monitor
MP	milepost
MPC	Marathon Petroleum Company
MPCA	Minnesota Pollution Control Agency
MPL	Minnesota Pipeline Company
MPUC	Minnesota Public Utilities Commission
MR	Minnesota Rules

MS	Minnesota Statutes
MSDS	Material Safety Data Sheet
NAAQS	national ambient air quality standards
NAGPRA	Native American Graves Protection and Repatriation Act
NDDH	North Dakota Department of Health
NDGF	North Dakota Game and Fish
NDGFD	North Dakota Game and Fish Department
NEB	National Energy Board
NEI	net emissions increase
NEPA	National Environmental Policy Act of 1969
NERR	Natural Estuarine Research Reserve
NFIP	National Flood Insurance Program
NFS	National Forest System / National Forest Service
NHDH	National Hydrography High Resolution Dataset
NHI	Natural Heritage Inventory
NHPA	National Historic Preservation Act
NNSR	Nonattainment New Source Review
NO_2	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NO_x	Nitrogen oxide
Noxious Weeds Plan	Noxious Weeds and Invasive Species Control Plan
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NR	Natural Resources
NRC	National Response Center
NRCS	Natural Resources Conservation Service
NRDA	Natural Resource Damage Assessment
NRDC	Natural Resources Defense Council
NRG	Natural Resource Group, LLC
NRHP	National Register of Historic Places
NRI	Nationwide Rivers Inventory
NRRI	Natural Resources Research Institute
NSA	noise sensitive area
NSPS	New Source Performance Standards
NSR	New Source Review
NWI	National Wetland Inventory

NWP 12	Nationwide Permit Number 12
O_3	ozone
OB	open bog
OC	open-cut
OH	Overwintering Habitat
OHV	off-highway vehicle
OHWL	ordinary high water level
OHWM	ordinary high water mark
OPA	Oil Pollution Act
OPS	Office of Pipeline Safety
ORV	off-road vehicle
ORW	Outstanding Resource Water
OSA	Office of the State Archeologist
OSF	Olive-Sided Flycatcher
OSHA	Occupational Safety and Health Administration
OSP	Organic System Plan
OSRO	Oil Spill Removal Organization
O-WL	objective for wildlife
PA	Programmatic Agreement
PAA	practicable alternatives analyses
PADD	U.S. Petroleum Administration for Defense District
PAH	polycyclic aromatic hydrocarbons
Pb	lead
PC	Pokegama Carnegie Wetland Complex
PC ASNRI	Pokegama Carnegie ASNRI
PCN	Pre-Construction Notice
PCP	pentachlorophenol
PE	polyethylene
PE	polyethylene encasement
PEM	Palustrine emergent
PFO	Palustrine forested
PHMSA	Pipeline and Hazardous Materials Safety Administration
PLS	Pure Live Seed
PM	particulate matter
PM_{10}	particulate matter less than 10 microns in diameter
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
PNW	Priority Navigable Waters

POC	point of contact
Pokegama CRM Plan	Pokegama Construction, Restoration, and Mitigation Plan
PP	push/pull
PPE	personal protective equipment
ppm	parts per million
PPV	peak particle velocity
PRCI	Pipeline Research Council International
PREP	National Preparedness for Response Exercise Program
PRF	Public Rights Features
Project	Alberta Clipper Pipeline Project
PROW	permanent right-of-way
PSD	Prevention of Significant Deterioration
psig	pounds per square inch, gauge
PSS	Palustrine scrub-shrub
PUB	Palustrine unconsolidated bottom
PUC	Public Utilities Commission
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
R	Regional Forester’s Sensitive Species
RB	road bore
RE	Riparian Emphasis
Revegetation Plan	Revegetation and Restoration Monitoring Plan
RFL	rock flume
RFSS	Regional Forester’s Sensitive Species
RHA	Rivers and Harbor Act
RIM	reinvest in Minnesota
RLp	Rosy Lake Plain
RMP	Resource Management Project
RMV	Recreational Motor Vehicle
RODM	Routine Onsite Determination Method
ROI	region of influence
ROW	right-of-way
RP	Recommended Practice
RQD	Rock Quality Designation
RRV	risk reduction valve
RSO	Radiation Safety Officer
RTC	Tribal Council

RU	Recreational Use-Scenic Landscape
RV	recreational vehicle
SAMP	Special Area Management Plan
SC	shrub carr
SCADA	Supervisory Control and Data Acquisition
SDNR	South Dakota Department of Natural Resources
SEM	sedge meadow
SFB	seasonally flooded basin
SHPO	State Historic Preservation Officer
SHSND	State Historical Society of North Dakota
SIO	Scenic Integrity Objectives
SIP	State Implementation Plan
SM	shallow marsh
SMS	Scenery Management System
SNA	State Natural Area
SO_2	sulfur dioxide
SOW	shallow open water
SP	poorly graded sand
SPCC	Spill Prevention, Control, and Cleanup
SPGL	*Sparganium glomeratum*
Spill Plan	Spill Prevention, Containment, and Control Plan
SS	Sandy Soils
SSURGO	Soil Survey Geographic
STATSGO	State Soil Geographic Database
S-WL	standards for lynx management
SWPPP	Storm Water Pollution Prevention Plan
T	threatened
TCP	traditional cultural property
TERO	Tribal Employment Rights Office
TES	threatened, endangered, and sensitive species
THPO	Tribal Historic Preservation Office
TIPS	Trenchless Installation of Pipelines
TMDL	total maximum daily load
Tpy	tons per year
Tribes	Indian Tribes
TS	Tamarack Swamp
TSS	total suspended solids

TWS	temporary work spaces
UB	Unique Biological, Aquatic, Geological, or Historical
US DOT	U.S. Department of Transportation
USACE	U.S. Army Corps of Engineers
USC	United States Code
USDA	United States Department of Agriculture
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VHS	Viral hemorrhagic septicemia
VIA	Visual Impact Assessment
VMP	Vegetation Management Project
VOC	volatile organic compound
VOM	volatile organic matter
VRV	volume reduction valve
WC	Wetland Composition
WCS	White Cedar Swamp
WDNR	Wisconsin Department of Natural Resources
WEPA	Wisconsin Environmental Policy Act
WGL DPS	Western Great Lakes Distinct Population Segment
WHS	Wisconsin Historical Society
WI EMP	Wisconsin Environmental Mitigation Plan
WMP	wet to wet-mesic prairie
WPDES	Wisconsin Pollution Discharge Elimination System
WPMO	Wetlands Protection and Management Ordinance
WPSC	Wisconsin Public Service Commission
WRP	Wetlands Reserve Program
WSM	Wet Sage Meadow
WWI	Wisconsin Wetland Inventory

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